

Abstract:

The invention relates to an electrode material for a lithium ion battery which is distinguished by the fact
5 that the electrode material comprises

- 5-85% by weight of nanoscale silicon particles which have a BET surface area of from 5 to 700 m²/g and a mean primary particle diameter of from 5 to 200 nm,
- 10 - 0-10% by weight of conductive carbon black,
- 5-80% by weight of graphite having a mean particle diameter of from 1 μm to 100 μm and
- 5-25% by weight of a binder,

the proportions of the components summing to not more
15 than 100% by weight, and to the use of the electrode material according to the invention for the production of lithium ion batteries, and to a lithium ion battery having a negative electrode which comprises the electrode material according to the invention.

20